NOVEMBER/DECEMBER 2024

GOAM43B/DOAM43B — BIOSAFETY

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define infectious agents.
2. What is aseptic technique?
3. What does LMOs stand for?
4. Define rDNA technology.
5. What is Biosafety Level 3?
6. Define Biocontainment.
7. How does PPE prevent infection?
8. Define Risk assessment.
9. Define infectious substances.
10. What does GEAC stand for?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write a note on biosafety levels of bacterial agents.

Or

(b) Describe about the historical background of biosafety.

12. (a) Summarize the GMO applications in food.

Or

(b) Write about the laboratory hazardous waste management.

13. (a) Describe the biosafety levels and its significance.

Or

(b) Intrepret the NIH guidelines on Biocontainment.

14. (a) Write a short note on Biohazard Risk Management.

Or

(b) Enlist the Biohazardous agents and its safety measures.

15. (a) Describe the role of Institutional Biosafety committee (IBSC).

Or

(b) Write about the Cartagena protocol on Biosafety in India

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail about the standard microbiological practices.

17. Write an essay on Risk assessment and communication for environmental release of GMOs.

18. Give an account on operations and maintenance of animal biosafety facilities.

19. Discuss in detail about the disinfection and decontamination procedures in biosafety.

20. Give an account on role of review committee on genetic manipulation (RCGM).

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